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GOVERNOR

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**  
DIVISION OF WATER  
200 FAIR OAKS LANE  
FRANKFORT, KENTUCKY 40601  
[www.kentucky.gov](http://www.kentucky.gov)

LEONARD K. PETERS  
SECRETARY

**FACT SHEET**

**KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM  
PERMIT TO DISCHARGE TREATED WASTEWATER  
INTO WATERS OF THE COMMONWEALTH**

KPDES No.: KY0003522      Permit Writer: Ronnie Thompson      Date: May 1, 2009  
AI No.: 3816

1. **SYNOPSIS OF APPLICATION**

a. Name and Address of Applicant

Kingsford Manufacturing Company  
P.O. Box 487  
Burnside, Kentucky 42519

b. Facility Location

Kingsford Manufacturing Company  
9500 South Highway 27  
Burnside, Pulaski County, Kentucky

c. Description of Applicant's Operation

Kingsford Manufacturing Company manufactures charcoal for use by retail consumers. Raw materials including sawdust, limestone, starch, sodium nitrate, borax, char and other carbonaceous materials are received and stored on site. The ingredients are processed and formed into charcoal briquets. Lighter fluid is added to some briquets (SIC Code 2861).

d. Production Capacity of Facility

N/A

e. Description of Existing Pollution Abatement Facilities

Outfall 001 - Equipment cooling water, storm water runoff, wash water, boiler blow down and steam condensation is treated by a containment pond and then by a larger settling pond before discharge. The settling pond is equipped with a boom for skimming.

Outfall 002 - Sanitary wastewater is treated by extended aeration before mixing with other wastewaters in the settling pond.

1. **SYNOPSIS OF APPLICATION - continued**

e. Description of Existing Pollution Abatement Facilities - continued

Instead of effluent limitations and monitoring requirements, the facility's BMP Plan will address discharges from these outfalls:

Outfall 003 - Storm water runoff is untreated.

Outfall 004 - Storm water runoff is untreated.

Outfall 005 - Storm water runoff is untreated.

Outfall 006 - Storm water runoff is untreated.

f. Permitting Action

Reissuance of a minor KPDES permit for an existing source charcoal briquet manufacturer.

2. **RECEIVING WATERS**

a. Stream Name/Location

Unnamed tributary of South Fork Cumberland River (Lake Cumberland) at latitude 36-58-16 and longitude 84-35-19

b. Stream Segment Use Classifications

South Fork Cumberland River is classified as Warmwater Aquatic Habitat, Primary/Secondary Contact Recreation and Domestic Water Supply.

c. Stream Segment Categorization

South Fork Cumberland River is designated as a High Quality Water pursuant to 401 KAR 10:030, Section 1(3)(a)1.

d. Stream Low Flow Condition

At the point of discharge, the 7Q10 and the Harmonic Mean for the unnamed tributary of South Fork Cumberland River are 0 cfs and 0.1 cfs, respectively.

At the city of Somerset intake, the nearest downstream public water supply, the 7Q10 and the Harmonic Mean for South Fork Cumberland River are 84 cfs and 960 cfs, respectively.

### 3. REPORTED DISCHARGE AND PROPOSED LIMITS

Description of Discharge - Serial Number - Outfall 001 - Equipment cooling water, storm water runoff, wash water, boiler blow down, steam condensation and treated sanitary wastewater from Outfall 002.

Effluent Characteristics	Reported Discharge		Proposed Limits		Applicable Water Quality Criteria and/or Effluent Guidelines
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	
Flow (mgd)	0.0510	0.2784	Report	Report	401 KAR 5:065, Section 2(8)
BOD <sub>5</sub> (mg/l)	7	29	Report	Report	401 KAR 5:065, Section 2(8)
Total Suspended Solids (mg/l)	14	38	30	60	401 KAR 5:080, Section 1(2)(c)2
Oil & Grease (mg/l)	BDL	BDL	10	15	401 KAR 5:080, Section 1(2)(c)2
Temperature (°F)	63	84	N/A	89	401 KAR 10:031, Section 4
Total Residual Chlorine (mg/l)	NR	NR	Report	Report	401 KAR 5:065, Section 2(8)
pH (standard units)	5.8 (min)	8.9 (max)	6.0 (min)	9.0 (max)	401 KAR 10:031, Section 4

The data in the Reported Discharge columns for Flow, Biochemical Oxygen Demand (5-day), Total Suspended Solids, Oil & Grease, Temperature and pH was determined from an analysis of the Discharge Monitoring Reports (DMRs) for the previous permit.

The abbreviation BOD<sub>5</sub> means Biochemical Oxygen Demand (5-day).

The abbreviation BDL means Below Detectable Limit.

The abbreviation N/A means Not Applicable.

The abbreviation NR means Not Reported on the Discharge Monitoring Reports (DMRs).

4. **METHODOLOGY USED IN DETERMINING LIMITATIONS**

a. Serial Number

Outfall 001 - Equipment cooling water at the rate of 60,999 gpd, storm water runoff at the rate of 30,000 gpd, wash water at the rate of 21,999 gpd, boiler blow down at the rate of 1,000 gpd, heater condensation at the rate of 18,563 gpd and treated sanitary wastewater at the rate of 5,800 gpd from Outfall 002.

b. Effluent Characteristics

Flow, Biochemical Oxygen Demand (5-day), Total Suspended Solids, Oil & Grease, Temperature, Total Residual Chlorine and pH.

c. Pertinent Factors

Kingsford Manufacturing Company is an existing source subject to the requirements of Subpart A (Char and Charcoal Briquets Subcategory) of 40 CFR Part 454 - Gum and Wood Chemicals Manufacturing Point Source Category. Specifically, the effluent limitations attainable by the application of "Best Practicable Control Technology Currently Available" (BPT) of 40 CFR Part 454.12 apply.

The effluent requirements state there shall be no discharge of process wastewater pollutants to waters of the Commonwealth.

d. Monitoring Requirements

Flow shall be monitored instantaneously once per month.

Biochemical Oxygen Demand (5-day), Total Suspended Solids, Oil & Grease, Temperature, Total Residual Chlorine and pH shall be monitored once per month by grab sample.

e. Justification of Limits

The Kentucky Administrative Regulations (KARs) cited below have been duly promulgated pursuant to the requirements of Chapter 224 of the Kentucky Revised Statutes (KRSs).

Flow, Biochemical Oxygen Demand (5-day) and Total Residual Chlorine

The monitoring requirements for these parameters are consistent with the requirements of 401 KAR 5:065, Section 2(8).

Total Suspended Solids and Oil & Grease

The limits for these parameters are consistent with the requirements of 401 KAR 5:080, Section 1(2)(c)2. The limits are representative of the Division of Water's "Best Professional Judgment" (BPJ) determination of the "Best Conventional Pollutant Control Technology" (BCT) requirements for these pollutants.

Temperature and pH

The limits for these parameters are consistent with the requirements of 401 KAR 10:031, Section 4.

## 5. REPORTED DISCHARGE AND PROPOSED LIMITS

Description of Discharge - Serial Number - Outfall 002 - Internal sanitary wastewater outfall.

Effluent Characteristics	Reported Discharge		Proposed Limits		Applicable Water Quality Criteria and/or Effluent Guidelines
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	
Flow (mgd)	0.002	0.004	Report	Report	401 KAR 5:065, Section 2(8)
BOD <sub>5</sub> (mg/l)	3	8	30	45	401 KAR 10:031, Section 4 401 KAR 5:045, Sections 2 and 3
Total Suspended Solids (mg/l)	4	9	30	45	401 KAR 10:031, Section 4 401 KAR 5:045, Sections 2 and 3
Fecal Coliform (N/100 ml)	23	104	Removing from permit		401 KAR 5:080, Section 1(2)(c)2
<i>Escherichia Coli</i> (N/100 ml)	NR	NR	130	240	401 KAR 10:031, Section 7 401 KAR 5:045, Section 4 401 KAR 5:080, Section 1(2)(c)2
pH (standard units)	6.7 (min)	8.3 (max)	6.0 (min)	9.0 (max)	401 KAR 10:031, Section 4 401 KAR 5:045, Section 4

The data in the Reported Discharge columns for Flow, Biochemical Oxygen Demand (5-day), Total Suspended Solids, Fecal Coliform and pH was determined from an analysis of the Discharge Monitoring Reports (DMRs) for the previous permit.

The abbreviation BOD<sub>5</sub> means Biochemical Oxygen Demand (5-day).

The abbreviation NR means Not Reported on the Discharge Monitoring Reports (DMRs).

The abbreviation N/A means Not Applicable.

The effluent limitations for BOD<sub>5</sub> and Total Suspended Solids are Monthly (30-day) and Weekly (7-day) Averages.

The effluent limitations for *Escherichia Coli* are thirty (30) day and seven (7) day Arithmetic Means.

6. METHODOLOGY USED IN DETERMINING LIMITATIONS

a. Serial Number

Outfall 002 - Sanitary wastewater at the rate of 0.0058 mgd. This outfall discharges to the settling pond where it mixes with other wastewaters.

b. Effluent Characteristics

Flow, Biochemical Oxygen Demand (5-day), Total Suspended Solids, Fecal Coliform Bacteria, *Escherichia Coli* and pH.

c. Pertinent Factors

In order to gauge compliance with the secondary treatment requirements of 401 KAR 5:045, an internal monitoring point has been established.

d. Monitoring Requirements

Flow shall be monitored instantaneously once per quarter.

Biochemical Oxygen Demand (5-day) and Total Suspended Solids shall be monitored once per quarter by 24-hour composite sample.

*Escherichia Coli* and pH shall be monitored once per quarter by grab sample.

e. Justification of Limits

The Kentucky Administrative Regulations (KARs) cited below have been duly promulgated pursuant to the requirements of Chapter 224 of the Kentucky Revised Statutes (KRSs).

Flow

The monitoring requirements for this parameter are consistent with the requirements of 401 KAR 5:065, Section 2(8).

Biochemical Oxygen Demand (5-day) and Total Suspended Solids

The limits for these parameters are consistent with the requirements of 401 KAR 10:031, Section 4 and 5:045, Sections 2 and 3. Section 4 of 10:031 establishes water quality criteria for the protection of Kentucky's waters. Sections 2 and 3 of 5:045 require biochemically degradable wastewaters to receive secondary treatment.

*Escherichia Coli* and Fecal Coliform Bacteria

The limits for *Escherichia Coli* are consistent with the requirements of 401 KAR 10:031, Section 7, 401 KAR 5:045, Section 4 and 401 KAR 5:080, Section 1(2)(c) 2. The removal of Fecal Coliform Bacteria is consistent with the requirements of 401 KAR 5:080k Section 1 (2) (c)2. Although Fecal Coliform Bacteria has been used as an indicator of fecal contamination, it does contain other species that are not necessarily fecal in origin. EPA recommends *Escherichia Coli*, which is specific to fecal material from warm-blooded animals, as the best indicator of health risk from contact with recreational waters. Therefore, it is the "Best Professional Judgment "BPJ" of the Division of Water that *Escherichia Coli* replace Fecal Coliform Bacteria on this permit.

6. **METHODOLOGY USED IN DETERMINING LIMITATIONS - continued**

e. Justification of Limits - continued

pH

The limits for this parameter are consistent with the requirements of 401 KAR 10:031, Section 4 and 401 KAR 5:045, Section 4. Section 4 of 10:031 establishes water quality criteria for the protection of Kentucky's waters. Section 4 of 5:045 establishes the acceptable levels of this parameter for biochemically degradable wastewaters.

7. **ANTIDEGRADATION**

The conditions of 401 KAR 10:029, Section 1 have been satisfied by this permit action. Since this permit action involves reissuance of an existing permit, and does not propose an expanded discharge, a review under 401 KAR 10:030 Section 1 is not applicable.

8. **PROPOSED COMPLIANCE SCHEDULE FOR ATTAINING EFFLUENT LIMITATIONS**

The permittee shall comply with the effluent limitations by the effective date of the permit.

9. **PROPOSED SPECIAL CONDITIONS WHICH WILL HAVE A SIGNIFICANT IMPACT ON THE DISCHARGE**

Best Management Practices (BMP) Plan

Pursuant to 401 KAR 5:065, Section 2(10), a BMP requirement shall be included: to control or abate the discharge of pollutants from ancillary areas containing toxic or hazardous substances or those substances which could result in an environmental emergency; where numeric effluent limitations are infeasible; or to carry out the purposes and intent of KRS 224.

Cooling Water Additives, FIFRA, and Mollusk Control

The discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) in cooling water which ultimately may be released to the waters of the Commonwealth is prohibited, except Herbicides, unless specifically identified and authorized by the KPDES permit. In the event the permittee needs to use a biocide or chemical not previously reported for mollusk control or other purpose, the permittee shall submit sufficient information, a minimum of thirty (30) days prior to the commencement of use of said biocides or chemicals, to the Division of Water for review and establishment of appropriate control parameters. Such information requirements shall include:

1. Name and general composition of biocide or chemical,
2. Any and all aquatic organism toxicity data,
3. Quantities to be used,
4. Frequencies of use,
5. Proposed discharge concentrations, and
6. EPA registration number, if applicable.

#### Disposal of Non-Domestic Wastes

The pass through or non-treatment by the wastewater treatment plant of chemicals or compounds which may injure, be chronically or acutely toxic to or produce adverse physiological or behavioral responses in humans, animals, fish and other aquatic life is not desirable. Materials such as acids, caustics, herbicides, household chemicals or cleansers, insecticides, lawn chemicals, non-biodegradable products, paints, pesticides, pharmaceuticals, and petroleum-based products may not be treatable by the wastewater treatment plant and should not be introduced and other environmentally sound methods for disposal should be utilized. The permittee should educate users of its system that introduction of such chemicals or compounds could result in an adverse environmental impact and provide the users with alternative disposal measures. This requirement is consistent with the requirements of 401 KAR 5:065, Section 1(5) and 401 KAR 5:080, Section 1(c)(2)c.

#### Outfall Signage

As a member of ORSANCO (Ohio River Valley Sanitation Commission) the Commonwealth of Kentucky through the Division of Water implements a requirement that the permittee post a permanent marker at each discharge point to the Ohio River. It is the Best Professional Judgment of the Division of Water, 401 KAR 5:080, Section 1(2)(c)2, that all permittees post a marker at all discharge locations and/or monitoring points. The ORSANCO requirements for the marker specify it to be at least 2 feet by 2 feet in size and a minimum of 3 feet above ground level with the Permittee Name and KPDES permit and outfall numbers in 2-inch letters. For internal monitoring points the marker shall be of sufficient size to include the outfall number in 2-inch letters and is to be posted as near as possible to the actual sampling location.

#### Certified Operators

Pursuant to 401 KAR 5:010, Section 2(1) wastewater systems shall be operated under the supervision of a certified operator who holds a Kentucky Certificate equivalent to the class of system being supervised. All other operators employed by the system shall hold a Kentucky Certificate or shall be in the process of obtaining a Kentucky Certificate.

Pursuant to 401 KAR 5:010, Section 8 wastewater systems shall be classified as follows:

- Class I: Systems with a design capacity of less than or equal to 50,000 gpd
- Class II: Systems with a design capacity of more than 50,000 gpd but less than or equal to 2.0 MGD
- Class III: Systems with a design capacity of more than 2.0 MGD but less than or equal to 7.5 MGD
- Class IV: Systems with a design capacity of more than 7.5 MGD

Section 2(2) of 401 KAR 5:010 require the certified operator to be reasonably available if not physically present while the system is operating.

Section 2(3) of 401 KAR 5:010 require the Kentucky Certificate shall be displayed on the wall of wastewater system office.



10. **PERMIT DURATION**

Five (5) years. This facility is in the Four Rivers, Upper and Lower Cumberland Basin Management Unit as per the Kentucky Watershed Management Framework.

11. **PERMIT INFORMATION**

The application, draft permit fact sheet, public notice, comments received and additional information is available by writing the Division of Water at 200 Fair Oaks Lane, Frankfort, Kentucky 40601.

12. **REFERENCES AND CITED DOCUMENTS**

All material and documents referenced or cited in this fact sheet are a part of the permit information as described above and are readily available at the Division of Water Central Office. Information regarding these materials may be obtained from the person listed below.

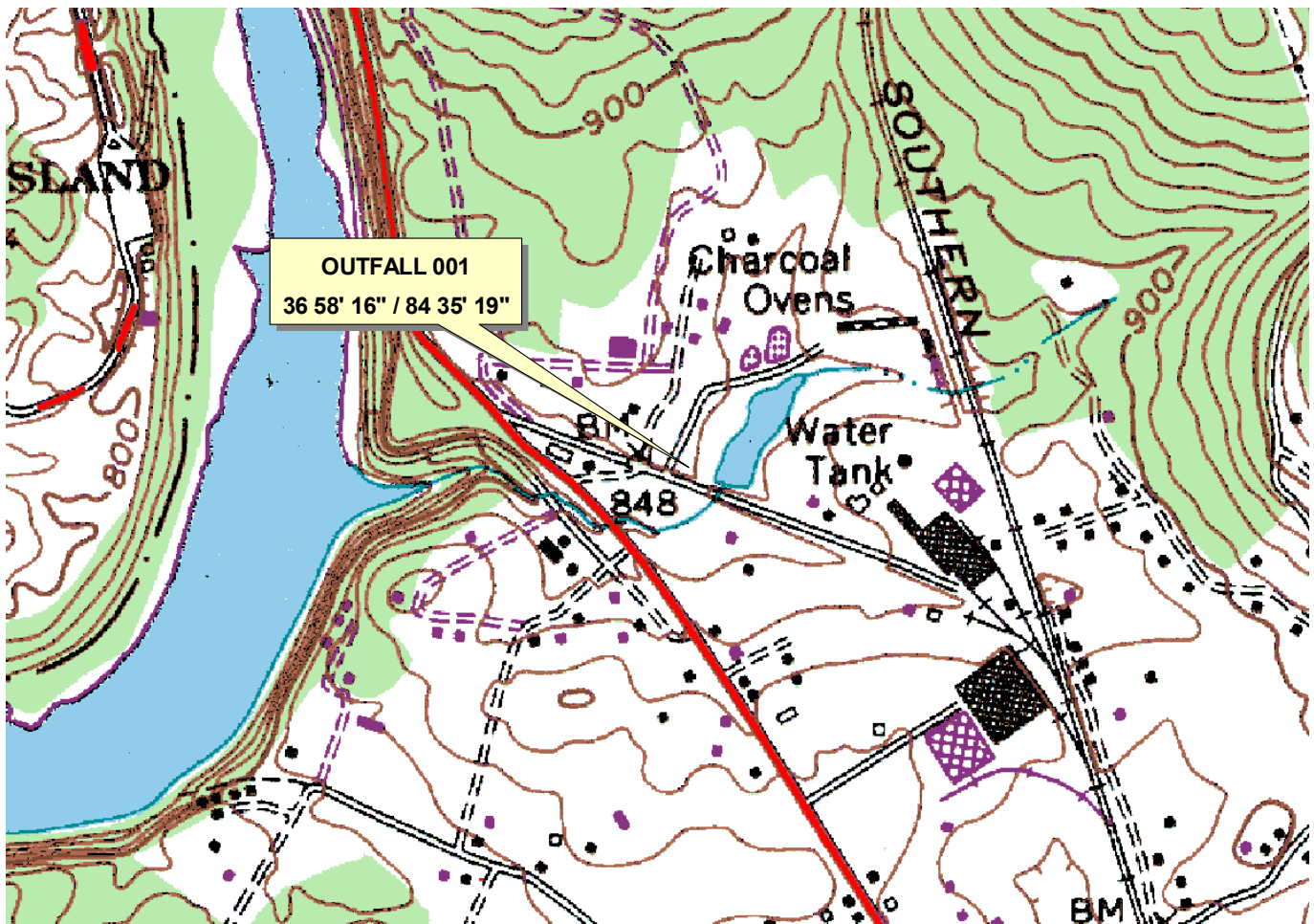
13. **CONTACT**

For further information, contact the individual identified on the Public Notice or the Permit Writer - Ronnie Thompson at (502) 564-8158, extension 4896 or e-mail [Ronnie.Thompson@ky.gov](mailto:Ronnie.Thompson@ky.gov).

14. **PUBLIC NOTICE INFORMATION**

Please refer to the attached Public Notice for details regarding the procedures for a final permit decision, deadline for comments, and other information required by 401 KAR 5:075, Section 4(2)(e).

## Kingsford Manufacturing Company



# KPDES



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

# PERMIT

PERMIT NO.: KY0003522

AI No.: 3816

### AUTHORIZATION TO DISCHARGE UNDER THE KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

Pursuant to Authority in KRS 224,

Kingsford Manufacturing Company  
P.O. Box 487  
Burnside, Kentucky 42519

is authorized to discharge from a facility located at

Kingsford Manufacturing Company  
9500 South Highway 27  
Burnside, Pulaski County, Kentucky

to receiving waters named

Unnamed tributary of South Fork Cumberland River (Lake Cumberland) at latitude 36-58-16 and longitude 84-35-19

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in PARTS I, II, III and IV hereof. The permit consists of this cover sheet, PART I 3 pages, PART II 1 page, PART III 2 pages and PART IV 3 pages.

This permit shall become effective on

This permit and the authorization to discharge shall expire at midnight,

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Sandra L. Gruzesky, Director  
Division of Water

# A1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the term of this permit, the permittee is authorized to discharge from Outfall serial number: 001 - Equipment cooling water, storm water runoff, wash water, boiler blow down, steam condensation and treated sanitary wastewater from Outfall 002.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	(lbs/day) Monthly Avg.	Daily Max.	Other Units (Specify) Monthly Avg.	Daily Max.	Measurement Frequency	Sample Type
Flow (mgd)	Report	Report	N/A	N/A	1/Month	Instantaneous
BOD <sub>5</sub> (mg/l)	N/A	N/A	Report	Report	1/Month	Grab
Total Suspended Solids	N/A	N/A	30 mg/l	60 mg/l	1/Month	Grab
Oil & Grease	N/A	N/A	10 mg/l	15 mg/l	1/Month	Grab
Temperature	N/A	N/A	N/A	89 °F	1/Month	Grab
Total Residual Chlorine (mg/l)	N/A	N/A	Report	Report	1/Month	Grab

The pH of the effluent shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/Month by grab sample.

There shall be no discharge of floating solids or visible foam or sheen in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: nearest accessible point prior to discharge or to mixing with the receiving waters or waste streams from other outfalls.

The abbreviation N/A means Not Applicable.

A2. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the term of this permit, the permittee is authorized to discharge from Outfall serial number: 002 - Internal sanitary wastewater outfall.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	(lbs/day) Monthly Avg.	Daily Max.	Other Units (Specify) Monthly Avg.	Daily Max.	Measurement Frequency	Sample Type
Flow (mgd)	Report	Report	N/A	N/A	1/Quarter	Instantaneous
BOD <sub>5</sub>	N/A	N/A	30 mg/l	45 mg/l	1/Quarter	24-Hr Composite
Total Suspended Solids	N/A	N/A	30 mg/l	45 mg/l	1/Quarter	24-Hr Composite
<i>Escherichia Coli</i> (N/100 ml)	N/A	N/A	130	240	1/Quarter	Grab

The pH of the effluent shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/Quarter by grab sample.

There shall be no discharge of floating solids or visible foam or sheen in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: nearest accessible point prior to discharge or to mixing with the receiving waters or waste streams from other outfalls.

The abbreviation N/A means Not Applicable

The abbreviation BOD<sub>5</sub> means Biochemical Oxygen Demand (5-day)

The effluent limitations for BOD<sub>5</sub> and Total Suspended Solids are Monthly (30-day) and Weekly (7-day) Averages.

The effluent limitations for *Escherichia Coli* are thirty (30) day and seven (7) day Arithmetic Means.

B. Schedule of Compliance

The permittee shall achieve compliance with all requirements on the effective date of this permit.

DRAFT

**STANDARD CONDITIONS FOR KPDES PERMIT**

This permit has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal, and local agencies.

It is the responsibility of the permittee to demonstrate compliance with permit parameter limitations by utilization of sufficiently sensitive analytical methods.

The permittee is also advised that all KPDES permit conditions in KPDES Regulation 401 KAR 5:065, Section 1 will apply to all discharges authorized by this permit.

### PART III

#### OTHER REQUIREMENTS

##### A. Reporting of Monitoring Results

Monitoring results obtained during each monitoring period must be reported on a preprinted Discharge Monitoring Report (DMR) Form that will be mailed to you. The completed DMR for each monitoring period must be sent to the Division of Water at the address listed below (with a copy to the appropriate Regional Office) postmarked no later than the 28th day of the month following the monitoring period for which monitoring results were obtained.

Division of Water  
Columbia Regional Office  
2751 Campbellsville Road  
Columbia, Kentucky 42728  
ATTN: Supervisor

Energy and Environment Cabinet  
Dept. for Environmental Protection  
Division of Water/Surface Water Permits Branch  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

##### B. Reopener Clause

This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under 401 KAR 5:050 through 5:086, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of KRS Chapter 224 when applicable.

##### C. Cooling Water Additives, FIFRA, and Mollusk Control

The discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) in cooling water which ultimately may be released to the waters of the Commonwealth is prohibited, except Herbicides, unless specifically identified and authorized by the KPDES permit. In the event the permittee needs to use a biocide or chemical not previously reported for mollusk control or other purpose, the permittee shall submit sufficient information, a minimum of thirty (30) days prior to the commencement of use of said biocides or chemicals, to the Division of Water for review and establishment of appropriate control parameters. Such information requirements shall include:

1. Name and general composition of biocide or chemical,
2. Any and all aquatic organism toxicity data,
3. Quantities to be used,
4. Frequencies of use,
5. Proposed discharge concentrations, and
6. EPA registration number, if applicable.



D. Disposal of Non-Domestic Wastes

The pass through or non-treatment by the wastewater treatment plant of chemicals or compounds which may injure, be chronically or acutely toxic to or produce adverse physiological or behavioral responses in humans, animals, fish and other aquatic life is not desirable. Materials such as acids, caustics, herbicides, household chemicals or cleansers, insecticides, lawn chemicals, non-biodegradable products, paints, pesticides, pharmaceuticals, and petroleum-based products may not be treatable by the wastewater treatment plant and should not be introduced and other environmentally sound methods for disposal should be utilized. The permittee should educate users of its system that introduction of such chemicals or compounds could result in an adverse environmental impact and provide the users with alternative disposal measures.

E. Outfall Signage

The permittee shall post a permanent marker at all discharge locations and/or monitoring points. The marker shall be at least 2 feet by 2 feet in size and a minimum of 3 feet above ground level with the Permittee Name and KPDES permit and outfall numbers in 2-inch letters. For internal monitoring points the marker shall be of sufficient size to include the outfall number in 2 inch letters and shall be posted as near as possible to the actual sampling location.

F. Certified Operators

This wastewater system shall be operated under the supervision of a Class I Kentucky Certified Operator who shall be reasonably available at all times. All other operators employed by the system shall hold a Kentucky Certificate or shall be in the process of obtaining a Kentucky Certificate. The certificates of each operator shall be prominently displayed on the wall of the system office.

## PART IV

### BEST MANAGEMENT PRACTICES

#### SECTION A. GENERAL CONDITIONS

1. Applicability

These conditions apply to all permittees who use, manufacture, store, handle, or discharge any pollutant listed as: (1) toxic under Section 307(a)(1) of the Clean Water Act; (2) oil, as defined in Section 311(a)(1) of the Act; (3) any pollutant listed as hazardous under Section 311 of the Act; or (4) is defined as a pollutant pursuant to KRS 224.01-010(35) and who have ancillary manufacturing operations which could result in (1) the release of a hazardous substance, pollutant, or contaminant, or (2) an environmental emergency, as defined in KRS 224.01-400, as amended, or any regulation promulgated pursuant thereto (hereinafter, the "BMP pollutants"). These operations include material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas.

2. BMP Plan

The permittee shall develop and implement a Best Management Practices (BMP) plan consistent with 401 KAR 5:065, Section 2(10) pursuant to KRS 224.70-110, which prevents or minimizes the potential for the release of "BMP pollutants" from ancillary activities through plant site runoff; spillage or leaks, sludge or waste disposal; or drainage from raw material storage. A Best Management Practices (BMP) plan will be prepared by the permittee unless the permittee can demonstrate through the submission of a BMP outline that the elements and intent of the BMP have been fulfilled through the use of existing plans such as the Spill Prevention Control and Countermeasure (SPCC) plans, contingency plans, and other applicable documents.

3. Implementation

If this is the first time for the BMP requirement, then the plan shall be developed and submitted to the Division of Water within 90 days of the effective date of the permit. Implementation shall be within 180 days of that submission. For permit renewals, the plan in effect at the time of permit reissuance shall remain in effect. Modifications to the plan as a result of ineffectiveness or plan changes to the facility shall be submitted to the Division of Water and implemented as soon as possible.

4. General Requirements

The BMP plan shall:

- a. Be documented in narrative form, and shall include any necessary plot plans, drawings, or maps.
- b. Establish specific objectives for the control of toxic and hazardous pollutants.
  - (1) Each facility component or system shall be examined for its potential for causing a release of "BMP pollutants" due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.

- (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g., precipitation), or other circumstances which could result in a release of "BMP pollutants," the plan should include a prediction of the direction, rate of flow, and total quantity of the pollutants which could be released from the facility as result of each condition or circumstance.

- c. Establish specific Best Management Practices to meet the objectives identified under paragraph b of this section, addressing each component or system capable of causing a release of "BMP pollutants."
- d. Include any special conditions established in part b of this section.
- e. Be reviewed by plant engineering staff and the plant manager.

5. Specific Requirements

The plan shall be consistent with the general guidance contained in the publication entitled "NPDES Best Management Practices Guidance Document," and shall include the following baseline BMPs as a minimum.

- a. BMP Committee  
b. Reporting of BMP Incidents  
c. Risk Identification and Assessment  
d. Employee Training  
e. Inspections and Records  
f. Preventive Maintenance  
g. Good Housekeeping  
h. Materials Compatibility  
i. Security  
j. Materials Inventory

6. SPCC Plans

The BMP plan may reflect requirements for Spill Prevention Control and Countermeasure (SPCC) plans under Section 311 of the Act and 40 CFR Part 151, and may incorporate any part of such plans into the BMP plan by reference.

7. Hazardous Waste Management

The permittee shall assure the proper management of solid and hazardous waste in accordance with the regulations promulgated under the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1978 (RCRA) (40 U.S.C. 6901 et seq.) Management practices required under RCRA regulations shall be referenced in the BMP plan.

8. Documentation

The permittee shall maintain a description of the BMP plan at the facility and shall make the plan available upon request to NREPC personnel. Initial copies and modifications thereof shall be sent to the following addresses when required by Section 3:

Division of Water  
Columbia Regional Office  
2751 Campbellsville Road  
Columbia, Kentucky 42728  
ATTN: Supervisor

Energy and Environment Cabinet  
Dept. for Environmental Protection  
Division of Water/Surface Water Permits Branch  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

9. BMP Plan Modification

The permittee shall amend the BMP plan whenever there is a change in the facility or change in the operation of the facility which materially increases the potential for the ancillary activities to result in the release of "BMP pollutants."

10. Modification for Ineffectiveness

If the BMP plan proves to be ineffective in achieving the general objective of preventing the release of "BMP pollutants," then the specific objectives and requirements under paragraphs b and c of Section 4, the permit, and/or the BMP plan shall be subject to modification to incorporate revised BMP requirements. If at any time following the issuance of this permit the BMP plan is found to be inadequate pursuant to a state or federal site inspection or plan review, the plan shall be modified to incorporate such changes necessary to resolve the concerns.

SECTION B. SPECIFIC CONDITIONS

1. Periodically Discharged Wastewaters Not Specifically Covered By Effluent Conditions

The permittee shall include in this BMP plan procedures and controls necessary for the handling of periodically discharged wastewaters such as intake screen backwash, meter calibration, fire protection, hydrostatic testing water, water associated with demolition projects, etc.

2. Outfalls Not Specifically Covered By Effluent Conditions

The BMP plan shall address Outfalls 003, 004, 005 and 006. The permittee shall include in this BMP plan procedures and controls necessary to prevent or minimize the potential for the release of "BMP pollutants" from these outfalls.